P...ENT COOPERATION TREATY

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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.				
MI22-2303 International application No.	International filing date (day/month/year)	Total A Day A Day (day)			
	International illing date (day/illorillivyear)	(Earliest) Priority Date (day/month/year)			
PCT/US 03/09913	31/03/2003	11/04/2002			
Applicant	*				
MICRON TECHNOLOGY, INC.					
This International Search Report has bee according to Article 18. A copy is being tr	en prepared by this International Searching Auth transmitted to the International Bureau.	nority and is transmitted to the applicant			
This International Search Report consists X It is also accompanied by	ts of a total of6sheets. by a copy of each prior art document cited in this	report.			
Basis of the report					
 With regard to the language, the language in which it was filed, ur 	e international search was carried out on the bas nless otherwise indicated under this item.	is of the international application in the			
the international search v Authority (Rule 23.1(b)).	was carried out on the basis of a translation of th	ne international application furnished to this			
b. With regard to any nucleotide ar was carried out on the basis of th	and/or amino acid sequence disclosed in the ini	ternational application, the international search			
	 ternational application in computer readable form	n.			
	to this Authority in written form.				
	to this Authority in computer readble form.				
the statement that the sul	ubsequently furnished written sequence listing do as filed has been furnished.	oes not go beyond the disclosure in the			
	<u>.</u> .	s identical to the written sequence listing has been			
2. Certain claims were fou	und unsearchable (See Box I).	•			
3. X Unity of invention is lac	· · · · · · · · · · · · · · · · · · ·				
	,				
4. With regard to the title,					
	ubmitted by the applicant.	·			
. ——	shed by this Authority to read as follows:				
DEPOSITION METHODS UTI APPARATUSES	ILIZING PHASED ARRAY MICROWA	VE EXCITATION, AND DEPOSITION			
5. With regard to the abstract,					
TX the text is approved as su	ubmitted by the applicant.				
the text has been establis	shed, according to Rule 38.2(b), by this Authority to date of mailing of this international search repo				
6. The figure of the drawings to be publ	·	3			
as suggested by the appli	licant.	None of the figures.			
because the applicant fail	iled to suggest a figure.				
X because this figure better	r characterizes the invention.	·			

Form PCT/ISA/210 (first sheet) (July 1998)

INTERNATIONAL SEARCH REPORT

tional application No. PCT/US 03/09913

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
The additional search fees were accompanied by the applicant's protest. X No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-13

A deposition method using a phased array microwave excitation

2. Claims: 14-38, 48-57

two deposition methods using a microwave radiation emitted through a window into a reaction chamber and into which one or more materials are flowing. The apparatus suitable for carring out these two methods.

3. Claims: 39-47, 58-68

1) A deposition method using a microwave radiation emitted through a window into a reaction chamber, one or more materials flowing:

i) through an inlet port extending through the window and

terminating in an opening under the window,

ii) across an though a dispersion plate beneath the opening,

iii) into the reaction chamber

2) The apparatus suitable for carring out this method

INTERN ONAL SEARCH REPORT

Intern I Application No PCT/US 03/09913

PCT/US 03/09913 A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C23C16/511 H010 H01021/00 C23C16/455 C23C16/40 C23C16/34 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 C23C H01Q Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX, IBM-TDB C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Α US 5 749 966 A (SHATES STEVEN C) 1-13. 12 May 1998 (1998-05-12) 39-47, 58-68 14,18, 21,28, 29,31, the whole document Χ 32,35, 48-52, 55,56 EP 1 115 147 A (OHMI TADAHIRO ;TOKYO Α 1-13, ELECTRON LTD (JP)) 39-47, 11 July 2001 (2001-07-11) 58-68 Χ figures 14,28,48 Χ Further documents are listed in the continuation of box C. Χ Patent family members are listed in annex. Special categories of cited documents: later document published after the international filing date or priority date and not in conflict with the application but "A" document defining the general state of the art which is not considered to be of particular relevance cited to understand the principle or theory underlying the "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docudocument referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled in the art. other means document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 2 4. 09. --

Form PCT/ISA/210 (second sheet) (July 1992)

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Name and mailing address of the ISA

4 September 2003

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INTERN ONAL SEARCH REPORT

Interní I Application No PCT/US 03/09913

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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X	figures	14,18, 20,21, 28,29, 31,32, 35, 48-52, 55,56
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	column 4, line 10 -column 6, line 25; figures	14,18, 20,21, 28,29, 31,32, 34-36, 48-50,
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